

AMENDMENTS TO THE CLAIMS

The following is a complete, marked-up listing of revised claims with a status identifier in parenthesis, underlined text indicating insertions, and strike through and/or double-bracketed text indicating deletions.

LISTING OF CLAIMS

1-26. (Cancelled)

27. (Currently Amended) A recording medium, comprising:

first area for storing control information required basically for recording or reproducing user data; and

second area for storing copy protection information for use in generating or processing copy protected user data, ~~the copy protection information being repeated in specific data units,~~ the copy protected user data being encrypted user data and the copy protection information being required to encrypt/decrypt the user data,

wherein the control information in the first area and the copy protection information in the second area are recorded separately, a plurality of copy protection information are presented in specific data units in the recording medium, data structure of the copy protection information in a first specific data unit is different from data structure of the copy protection information in a second specific data unit with respect to a modulation method, and at least one of the copy protection information in the first specific data unit and the copy protection information in the second specific data unit is formed as a wobbled pattern ~~in the second area, and~~

~~wherein the data structure of the copy protection information in the first specific data unit is different from the data structure of the copy protection~~

~~information in the second specific data unit with respect to a modulation method.~~

28. (Previously Presented) The recording medium according to claim 27, wherein the copy protection information is key information for use in encrypting/decrypting the user data.

29. (Cancelled)

30. (Previously Presented) The recording medium according to claim 27, wherein the first area further includes indicating information for indicating whether the recording medium contains the copy protection information, the indication information being formed as a wobbled pattern.

31. (Previously Presented) The recording medium according to claim 27, wherein the at least one of the copy protection information in the first specific data unit and the copy protection information in the second specific data unit is within a lead-in area of the recording medium.

32. (Previously Presented) The recording medium according to claim 30, wherein the indicating information and/or the copy protection information are recorded by phase modulated method.

33. (Previously Presented) The recording medium according to claim 27, wherein the copy protection information is stored alternatively in another area

different from the second area.

34. (Cancelled)

35. (Currently Amended) A method of recording data on a recording medium, comprising:

recording control information required basically for recording or reproducing user data in a first area; and

recording copy protection information for use in generating or processing copy protected user data in another area different from a second area, the step of recording copy protection information comprising copying the copy protection information from the second area to said another area, ~~the copy protection information in the second area being formed as a wobbled pattern and being repeated in specific data units, the~~ copy protected user data being encrypted user data and the copy protection information being required to encrypt/decrypt the user data,

wherein the control information in the first area and the copy protection information in the second area are recorded separately, a plurality of copy protection information are presented in specific data units in the recording medium, at least one of the copy protection information in a first specific data unit and the copy protection information in a second specific data unit is formed as a wobbled pattern, and data structure of the copy protection information in ~~a~~the first specific data unit is different from data structure of the copy protection information in ~~a~~the second specific data unit in the second area with respect to a modulation method, and

~~wherein the data structure of the copy protection information in the first~~

~~specific data unit is different from the data structure of the copy protection information in the second specific data unit with respect to a modulation method.~~

36. (Previously Presented) The method according to claim 35, further comprising:

recording indicating information for indicating whether the recording medium contains the copy protection information in the first area.

37. (Previously Presented) The method according to claim 35, wherein the step of recording the copy protection information comprises recording the copy protection information in another area within a lead-in area of the recording medium.

38. (Previously Presented) The method according to claim 36, wherein the indicating information and/or the copy protection information are recorded by phase modulated method.

39-53 (Cancelled)

54. (Previously Presented) The recording medium according to claim 27, further comprising:

third area provided between the first area and the second area, the third area being used for transition between the first area and the second area.

55. (Cancelled)

56. (Currently Amended) A method of reproducing data from a recording medium, comprising:

reading control information required basically for reproducing user data from a first area; and

detecting copy protection information for use in processing copy protected user data from a second area, ~~the copy protection information being formed as a wobbled pattern and being repeated in specific data units,~~ the copy protected user data being encrypted user data and the copy protection information being required to encrypt/decrypt the user data,

wherein the control information in the first area and the copy protection information in the second area are recorded separately, a plurality of copy protection information are presented in specific data units in the recording medium.

data structure of the copy protection information in a first specific data unit is different from data structure of the copy protection information in a second specific data unit with respect to a modulation method, and

at least one of the copy protection information in the first specific data unit and the copy protection information in the second specific data unit is formed as a wobbled pattern ~~in the second area, and~~

~~wherein the data structure of the copy protection information in the first specific data unit is different from the data structure of the copy protection information in the second specific data unit with respect to a modulation method.~~

57. (Previously Presented) The method according to claim 56, wherein the

step of detecting includes detecting the copy protection information from a lead-in area of the recording medium.

58. (Previously Presented) The method according to claim 56, further comprising:

detecting indicating information for indicating whether the recording medium contains the copy protection information from the first area, the indication information being formed as a wobbled pattern, wherein the copy protected information is detected based on the indicating information.

59. (Previously Presented) The method according to claim 58, wherein the detecting step detects the copy protection information and the indicating information by a push-pull method.

60. (Previously Presented) The method according to claim 56, further comprising:

processing the user data based on the control information and the copy protection.

61. (Previously Presented) The method according to claim 59, wherein the step of processing includes decrypting copy protected user data.

62. (Currently Amended) An apparatus for reproducing data from a recording medium, comprising:

a detection unit configured to detect control information required basically for reproducing user data from a first area and copy protection information for use in processing copy protected user data from a second area, the copy protected user data being encrypted user data and the copy protection information being required to encrypt/decrypt the user data, ~~wherein the detection unit is configured to detect the copy protection information formed in at least one of specific data units, wherein a plurality of copy protection information are presented in specific data units in the recording medium,~~ data structure of the copy protection information in a first specific data unit is different from data structure of the copy protection information in a second specific data unit with respect to a modulation method, at least one of the copy protection information in the first specific data unit and the copy protection information in the second specific data unit is formed as a wobbled pattern ~~in the second area~~ and the control information in the first area and the copy protection information in the second area are recorded separately; and

a controller configured to control the detection unit to detect the control information from the first area and the copy protection information from the second area, ~~and~~

~~wherein the data structure of the copy protection information in the first specific data unit is different from the data structure of the copy protection information in the second specific data unit with respect to a modulation method.~~

63. (Previously Presented) The apparatus according to claim 62, wherein the detection unit is configured to read the specific data units within a lead-in area of the recording medium to detect the copy protection information, according to the

control of the controller.

64. (Previously Presented) The apparatus according to claim 62, wherein the detection unit is further configured to detect indicating information for indicating whether the recording medium contains the copy protection information from the first area, the indication information being formed as a wobbled pattern.

65. (Previously Presented) The apparatus according to claim 64, wherein the detection unit is configured to detect the copy protection information and the indication information by a push-pull method.

66. (Cancelled)

67. (Previously Presented) The apparatus according to claim 62, further comprising:

a data processor configured to process the user data read based on the control information and the copy protection information.

68. (New) A method of recording data on a recording medium, comprising:

recording copy protected user data encrypted by copy protection information;
recording control information required for reproducing the copy protected user data in a first area; and
recording the copy protection information for decrypting the copy protected

user data in a second area,

wherein the control information in the first area and the copy protection information in the second area are recorded separately, a plurality of copy protection information are presented in specific data units in the recording medium, at least one of the copy protection information in a first specific data unit and the copy protection information in a second specific data unit is formed as a wobbled pattern, and data structure of the copy protection information in the first specific data unit is different from data structure of the copy protection information in the second specific data unit in the second area with respect to a modulation method.

69. (New) The method according to claim 68, further comprising:

recording indicating information for indicating whether the recording medium contains the copy protection information.

70. (New) The method according to claim 69, wherein the indicating information and/or the copy protection information are recorded by phase modulated method.

71. (New) The method according to claim 69, wherein the copy protection information is stored in another area different from the second area.

<End of Claims Listing>